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STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

P.O. BOX 47600 • Olympia, Washington 98504-7600 • (206) 459-6000

June 25, 1993

RECEIVED
JUN 28 1993
URS CONSULTANTS

Mr. Jeff Kesner
URS Consultants, Inc.
Seattle Operations
1100 Olive Way, Ste. 200
Seattle, WA 98101

Dear Mr. Kesner:

Enclosed you will find the Primary Water Rights Reports per your request on June 21. I have included the selection criteria tables for sections/townships/ranges. The reports include all water right information within these geographic areas as found in the Water Right Information System (WRIS). The most recent data update was May 31, 1993. I have also enclosed an example brochure and attachment to assist in deciphering the reports.

Please note that Washington State Law (RCW 42.17.260(s)) prohibits the usage of this material for commercial purposes or to give or provide access of this material to others for commercial purposes.

If I can be of any further assistance, please call me at (206) 438-7618.

Sincerely,

Linda M. Kiefer

Linda M. Kiefer
Water Resources

LK
Enclosures

WATER RIGHTS REQUEST ATTACHMENT

When processing your request for "Active Water Rights", the standard procedure will be to provide you with lists that include the following:

APPLICATIONS - Applications are not water rights but are included in this report for completeness. The assumption is that someone interested in active rights would also be interested in the pending applications for a water right. The Ecology regional office that accepted the applications may be able to provide some guidance in a broad sense on what is the probable fate of applications in a given area.

PERMITS - Permits are probable water rights. When an application has been permitted, it means Ecology has determined that a certificate could be issued. If the conditions of the permit are met, a certificate will be issued.

CERTIFICATES - Certificates are water rights. Ecology is aware that some certificates are no longer being fully exercised and could be partly or completely relinquished for nonuse. Relinquishment is a formal process, however, and until such an action is taken, a certificate is considered active and represents a water allocation.

CLAIMS - Water right claims filed under the Water Right Claims Registration Act (Chapter 90.14 RCW) are not water rights. However, there are old (pre state water law) rights represented by many of the claims. This list of claims is provided because of the possible rights that it represents. It is important that you understand both the need to consider these as possible rights and that they are not confirmed water rights.

NOTE: Reports can be tailored to exclude any of these items. Just let us know at the time you request a report.

a:wrattach.doc

Example Printout* of a Primary Report from the Water Rights Information System (WRIS)

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 2 PAGE 00 REPORT DATE 02/28/89

CONTROL #	SEC #	OLD APPL	OLD PERM	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY	PERMIT DATE	NAME	SOURCE OF APPROPRIATION	TRIBUTARY OF

#OF PTS	R P	LOC. OF POD/POW	(CHG C#)	PURPOSE OF USE	USE TYPE	INST QI	C R S M U U	ANNUAL QA	C R S M U U	IRR ACC	C S PRO- M U VISOS	TIME OF USE	R R R I A C

WATER RESOURCE INVENTORY AREA- 10

TOWNSHIP - 18 RANGE - 10 E

S2*06508C	22	06508	06179	04701	09/12/962		PIER	03/25/963	FIRGROVE MUTUAL	ROCK CR			CHEHALIS R
1 NW4NW4				DOMESTIC MULTIPLE		C	0.5	C 3	50.0 3			S$	
				STOCKWATER		C	0.5	C 3	50.0 3			S$	
				IRRIGATION		C	0.5	C 3	50.0 3		20	S$	04011001

CONTROL # — Number used to identify water rights in WRIS. The letters S, G, and R, at the beginning of the number, denote surface, ground, and reservoir water rights. The second character of the control number denotes the Region in which the water right was issued. Our example is from Region 2, SWRO. The letter at the end of the number denotes the stage of perfection (A=Application, P=Permit, and C=Certificate are used most frequently) of the water right.

SEC # — Denotes section, within a township and range, that the point, or points, of diversion or withdrawal are located. In our example, the township is 18N, the range is 10E, and the section number is 22.

OLD OLD OLD APPL PERM CERT — These represent Application, Permit and Certificate numbers that were assigned by Ecology prior to the development of the current system (which tracks information by CONTROL #).

DATE OF PRIORITY — Date of filing of a water right application with the Department of Ecology. The year is designated by three digits. In our example, 962 represents 1962.

S C A T C M — Internal tracking parameters, designating water right status, change of certificate, and adjudication class number. Most frequently used status codes are (Q) relinquishment, (C) cancelled permit, and (R) rejected application.

CNTY — A four letter code which indicates the county in which the point of diversion or withdrawal is located (PIER = PIERCE Co.).

PERMIT DATE — Date permit was issued. The year is designated by 3 digits. In our example, 963 represents 1963.

NAME — The name of the applicant, permittee, certificant depending on the stage and type of record, is entered in this field last name first followed by initials or first name. In our example, the NAME is FIRGROVE MUTUAL.

SOURCE OF APPROPRIATION — The name, if known, of the surface water source, or type of source if unnamed, for surface water records. For ground water records, the source is indicated as being a well, or sump. In our example, the SOURCE OF APPROPRIATION is ROCK CREEK.

TRIBUTARY — For surface water records, this field refers to the name, if known, of the stream or other surface water body to which the source flows, if any. In our example, the source is a TRIBUTARY OF the CHEHALIS RIVER.

*example comes from SEC22, T18 R10E which is located in Region 2 (SWRO), WATER RESOURCE INVENTORY AREA 10

Example Printout of a Primary Report from the Water Rights Information System (WRIS)

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 2 PAGE 00 REPORT DATE 02/28/89

CONTROL #	SEC #	OLD APPL	OLD PERM	OLD CERT	DATE OF PRIORITY	S C A T C M	CNTY	PERMIT DATE	NAME	SOURCE OF APPROPRIATION	TRIBUTARY OF

#OF PTS	R P	LOC. OF POD/POW	(CHG C#)	PURPOSE OF USE	USE TYPE	INST QI	C R S M U U	ANNUAL QA	C R S M U U	IRR ACC	C S M U	PRO-VISOS	TIME OF USE	R R R I A C

WATER RESOURCE INVENTORY AREA- 10

TOWNSHIP - 18 RANGE - 10 E

S2*06508C	22	06508	06179	04701	09/12/962		PIER	03/25/963	FIRGROVE MUTUAL		ROCK CR							CHEHALIS R	
1	NW4NW4			DOMESTIC MULTIPLE		C	0.5	C 3	50.0	3				S$					
				STOCKWATER		C	0.5	C 3	50.0	3				S$					
				IRRIGATION		C	0.5	C 3	50.0	3		20		S$				04011001	

LOC. OF POD/POW This field is used to describe land subdivisions that completely encompass the location of the point(s) of diversion or withdrawal. In our example, the land subdivision is the NW¼ of the NW¼ of section 22.

PURPOSE OF USE The authorized or proposed uses of water under each water right are indicated in this field. There can be multiple purposes of use for a given water right. In our example, we site three different uses.

USE TYPE This field indicates whether the diversion of water for each use has a (C) consumptive, (P) partially consumptive or (N) non-consuptive effect on the source of supply.

INST QI Instantaneous Quantity: For surface water rights, the authorized instantaneous rate of diversion is stated in cubic feet per second (C) for each purpose of use. For ground water rights, the authorized instantaneous rate of withdrawal is stated in gallons per minute (G) for each purpose of use. These quantities are not necessarily additive. In our example, the QI = 0.5 CFS.

C R S M U U Internal tracking parameters which indicate if a water quantity is in Common (C), Re-use (R), or Supplemental (S) to other purposes of use.

ANNUAL QA For both surface water and ground water rights, the authorized total annual diversion is stated in acre-feet per year for each purpose of use. For reservoir storage rights, the authorized annual storage volume is stated in acre-feet per year. In our example, QA = 50.

IRR ACC Where irrigation is specified as a purpose of use, the maximum irrigated land area authorized is indicated in acres. In our example, the maximum number of irrigated acres is 20.

PRO-VISOS Certain standard informative statements, restrictions or provisions are often included on state issued permits and certificates. These are tracked by letter codes in this field (R for access port, S for screening, $ for general information, etc.).

TIME OF USE An entry in this field denotes the period of time during a year when water may be diverted or withdrawn for a specific purpose of use. A blank field indicates continuous use. In our example, 04011001 denotes April 1st to October 1st (IS denotes during irrigation season).

R R R I A C Internal tracking parameters used for split records which indicate the number of repeat QI's (RI), repeat QA's (RA), and repeat irrigated acres (RC), associated with this water right. These fields are blank in our example.

#1104-93A
(Ground water list)

---------- SELECTED TOWNSHIPS, RANGES AND SECTIONS TA ROW 1 TO 13 OF 13
TSO COMMAND ===> PF2 = CANCEL, PF6 = END & SAVE

COMMAND	TOWNSHIP	RANGE	SEC-1	SEC-2
__	08	02W	07	08
__	08	02W	16	22
__	08	02W	27	35
__	08	03W	11	12
__	08	03W	15	15
__	08	03W	21	28
__	08	03W	33	36
__	07	02W	03	10
__	07	02W	15	21
__	07	02W	29	30
__	07	03W	01	04
__	07	03W	09	15
__	07	03W	22	26

********** BOTTOM OF DATA **********

104-93B
Surface Wtr List.

---------- SELECTED TOWNSHIPS, RANGES AND SECTIONS TA ROW 1 TO 11 OF 11
TSO COMMAND ===> PF2 = CANCEL, PF6 = END & SAVE

COMMAND	TOWNSHIP	RANGE	SEC-1	SEC-2
	07	02W	06	06
	07	03W	01	02
	08	03W	17	22
	08	03W	27	28
	08	03W	34	36
	08	04W	13	15
	08	04W	21	22
	08	04W	28	32
	08	05W	22	22
	08	05W	25	27
	08	05W	35	36

********** BOTTOM OF DATA **********

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 2 PAGE 1 REPORT DATE 6/22/93

CONTROL # SEC # OLD APPL OLD PERM OLD CERT DATE OF PRIORITY S T C A M CNTY PERMIT DATE NAME SOURCE OF APPROPRIATION TRIBUTARY OF

#OF PTS R P LOC. OF POD/POW (CHG C#) PURPOSE OF USE USE TYPE INST QI C M R U S U ANNUAL QA C M R U S U IRR AC C M S U PRO-VISOS TIME OF USE R I R A R C

WATER RESOURCE INVENTORY AREA- 25

TOWNSHIP - 07 RANGE - 02 W

Jeff Kesner ~

Ground Water - Water Right Information

CONTROL # / #OF PTS	SEC / R P	OLD APPL / LOC. OF POD/POW	OLD PERM / (CHG C#)	OLD CERT / PURPOSE OF USE	DATE OF PRIORITY / USE TYPE	S C A T C M	CNTY / PERMIT DATE / INST QI	NAME / ANNUAL QA	SOURCE OF APPROPRIATION TRIBUTARY OF C R S M U U / C R S M U U	IRR AC C S M U	PRO-VISOS	TIME OF USE	R R R I A C
WATER RESOURCE INVENTORY AREA- 25													
TOWNSHIP - 07 RANGE - 02 W													
TOWNSHIP - 07 RANGE - 02 W													
G2-23674C 1	03 JAMES HUNTINGTON DLC IN NE4			DOMESTIC SINGLE	12/24/974	C	COWL 75.0 G	02/20/976 COWLITZ CO PUB WKS 2.0	WELL		RN		
G2*08019C 5	04 08019 NATHANIEL STONE DLC 50		07509	05465 IRRIGATION	03/29/966	C	COWL 345.0 G	06/23/966 MANKE A G 30.0	WELLS	15.0		IS	
G2*03255C 1	08 03255 WM HUTCHINSON DLC		03151	01732 COMMERCIAL/INDUSTRIAL	06/04/953	C	COWL 1000.0 G	12/18/953 CONTINENTAL GRAIN 550.0	WELL		AE		
G2*00196S 1	09 00196 NE4 SW4			00138 DOMESTIC GENERAL	11/23/935	C	COWL / / 290.0 G 2	LONG-BELL LBR CO 203.0 2	WELL				
				HEAT EXCHANGE		C	290.0 G 2	203.0 2					
G2*00199S 1	09 00199 NE4 NE4 SW4			00139 DOMESTIC GENERAL	11/23/935	C	COWL / / 290.0 G 2	LONG-BELL LBR CO 203.0 2	WELL				
				HEAT EXCHANGE		C	290.0 G 2	203.0 2					
TOWNSHIP - 08 RANGE - 02 W													
G2*01064S 1	30 01064 NE4SW4			00979 COMMERCIAL/INDUSTRIAL	00/00/931	C	COWL / / 100.0 G	FRY MINT FARM 14.0	WELL				
G2*00185S 1	31 00185 ORLAND GEORGE DLC			00155 COMMERCIAL/INDUSTRIAL	11/02/931	C	COWL / / 700.0 G	WEYERHAEUSER CO 1136.0	WELL				
G2*05006C 1	31 05006 ORLAND C GEORGE DLC		04653	03257 COMMERCIAL/INDUSTRIAL	09/17/958	C	COWL 12/05/958 200.0 G	WEYERHAEUSER CO 320.0	WELL				
G2*06343C 1	31 06343 ORLAND GEORGE DLC		05998	05249 HEAT EXCHANGE	06/12/962	C	COWL 10/29/962 1000.0 G 2	WEYERHAEUSER CO 1550.0 2	WELL		A		
				COMMERCIAL/INDUSTRIAL		C	1000.0 G 2	1550.0 2			A		
G2-21657C 1	31 CRUMLINE LADU DLC 46 NW4 SW4			COMMERCIAL/INDUSTRIAL	11/21/973	C	COWL 05/17/974 1000.0 G	WEYERHAEUSER CO 1600.0	WELL		RNMT		
G2-23517C 1	31 NW4 SW4			COMMERCIAL/INDUSTRIAL	12/11/974	C	COWL 01/02/976 450.0 G	WEYERHAEUSER CO 1600.0	WELL S		RNMT		
G2*03236C 1	34 03236 NE4SW4		03125	01707 COMMERCIAL/INDUSTRIAL	05/25/953	C	COWL 12/11/953 100.0 G	INTERSTATE PACKERS 60.0	WELL		AE	PS	
G2*05653C 1	34 05653 SE4SW4		05316	04140 HEAT EXCHANGE	06/30/960	C	COWL 09/19/960 300.0 G	WESTPORT CHEMICAL 480.0	WELL		A		
TOWNSHIP - 08 RANGE - 03 W													
G2*08309C 1	25 08309 CRUMLINE LADU DLC 38		07898	06184 COMMERCIAL/INDUSTRIAL	09/20/966	C	COWL 05/24/967 2500.0 G	REYNOLDS METALS CO 4000.0	WELL		A		
G2*08367C 1	25 08367 CRUMLINE LADU DLC 38		07900	06186 COMMERCIAL/INDUSTRIAL	10/27/966	C	COWL 05/24/967 3000.0 G	REYNOLDS METALS CO 4800.0	WELL		A		
G2*09127C 1	25 09127 CRUMLINE LADUE DLC 38		08456	06427 COMMERCIAL/INDUSTRIAL	12/26/967	C	COWL 05/02/968 2150.0 G	REYNOLDS METALS CO 3440.0	WELL		R		
G2*02244C 1	36 02244 CRUMLINE LADUE DLC		02042	01571 COMMERCIAL/INDUSTRIAL	12/03/951	C	COWL 02/01/952 2500.0 G	REYNOLDS METALS CO 4033.0	WELL				
G2*08310C 1	36 08310 CRUMLINE LADU DLC 38		07899	06185 COMMERCIAL/INDUSTRIAL	09/20/966	C	COWL 05/24/967 2500.0 G	REYNOLDS METALS CO 4000.0	WELL		A		
G2*08368C 1	36 08368 CRUMLINE LADU DLC 38		07901	06187 COMMERCIAL/INDUSTRIAL	10/27/966	C	COWL 05/24/967 3000.0 G	REYNOLDS METALS CO 4800.0	WELL		A		

CONTROL # / #OF PTS	SEC # / P	OLD APPL / LOC. OF POD/POW	OLD PERM / (CHG C#)	OLD CERT / PURPOSE OF USE	DATE OF PRIORITY / USE TYPE	S C A T C M / INST QI	CNTY / M	PERMIT DATE / U	NAME / U	SOURCE OF APPROPRIATION TRIBUTARY OF / ANNUAL QA	C R S M U U	IRR AC	C S M U	PRO-VISOS	TIME OF USE	R R R I A C
WATER RESOURCE INVENTORY AREA- 26																
TOWNSHIP - 07 RANGE - 02 W																
TOWNSHIP - 07 RANGE - 02 W																
G2-26125C	03			03/24/982		COWL	08/23/982	KELSO ELKS LODGE	WELLS							
3	SE4NE4; NE4SE4			IRRIGATION	C	500.0	G		381.0			80.0		$R	00000000	2
G2-27265P	03			10/30/987		COWL	03/31/989	KELSO ELKS LODGE	WELLS							
3	SE4NE4; NE4SE4			IRRIGATION	C	710.0	G 2		339.0			127.0		$R	00000000	
				IRRIGATION	C	710.0	G 2		381.0		S	127.0		$R		
TOWNSHIP - 08 RANGE - 02 W																
G2-24762C	27			12/28/977		COWL	08/10/978	KELSO CITY OF	WELL							
1	SE4SE4			DOMESTIC MUNICIPAL	C	2500.0	G		2800.0					MT		
G2-26829C	27			12/02/985		COWL	01/12/987	COWLITZ CO	WELL							
1	SW4SE4			HEAT EXCHANGE	C	350.0	G		403.0					RM		
G2-24204C	34			06/04/976		COWL	01/21/977	AMERICAN CYANAMID	WELLS							
2	SE4 SW4			COMMERCIAL/INDUSTRIAL	C	1200.0	G		1920.0					RN		

RECORDED WATER RIGHTS OF THE DEPARTMENT OF ECOLOGY REGION 2 PAGE 1 REPORT DATE 6/22/93

CONTROL # SEC # OLD APPL OLD PERM OLD CERT DATE OF PRIORITY S T C A M CNTY PERMIT DATE NAME SOURCE OF APPROPRIATION TRIBUTARY OF

#OF PTS R P LOC. OF POD/POW (CHG C#) PURPOSE OF USE USE TYPE INST QI C M R U S U ANNUAL QA C M R U S U IRR AC C M S U PRO-VISOS TIME OF USE R I R A R C

WATER RESOURCE INVENTORY AREA- 25

TOWNSHIP - 08 RANGE - 03 W

Jeff Kesner -

Surface Water - Water Right Information

CONTROL # / #OF PTS	SEC # / P	OLD APPL / LOC. OF POD/POW	OLD PERM / (CHG C#)	OLD CERT / PURPOSE OF USE	DATE OF PRIORITY	S T	C C	A M	CNTY / USE TYPE	PERMIT DATE / INST QI	NAME	C M	R U	S U	ANNUAL QA	C M	R U	S U	SOURCE OF APPROPRIATION TRIBUTARY OF / IRR AC	C M	S U	PRO-VISOS	TIME OF USE	R I	R A	R C
WATER RESOURCE INVENTORY AREA- 25																										
TOWNSHIP - 08 RANGE - 03 W																										
TOWNSHIP - 08 RANGE - 03 W																										
S2-23201C	17				06/03/974					COWL 08/29/975	RICE HOWARD D				COAL CR SL							COL R			
1	GL-4			DOMESTIC SINGLE			C		.05	C 2				1.0				SU							
				IRRIGATION			C		.05	C 2				2.0			1.0	SU				05011001			

Cert. 3573 A

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ....
Permit No. 5064

(1) **OWNER:** Name Jacob Greenwalt Address Route 1 Box 74, Odessa, Washington

LOCATION OF WELL: County Adams — NE ¼ XXXX ¼ Sec. 3 T. 19 N., R. 31 W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☐ Industrial ☐ Municipal ☐ Replacement Irrigation ☒ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

0-648 – 15" hole 648-708 – 12" hole
(5) **DIMENSIONS:** Diameter of well .... inches.
Drilled .... ft. Depth of completed well 710 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 18 " Diam. from 0 ft. to 26 ft.
Threaded ☐ 12 " Diam. from 0 ft. to 495 ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☒ No ☐
Type of perforator used slotted pipe
SIZE of perforations 1/8 in. by 3 in.
..... perforations from 440 ft. to 475 ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name ....
Type .... Model No. ....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 26 ft.
Material used in seal concrete
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) **PUMP:** Manufacturer's Name ....
Type: .... H.P. .....

(8) **WATER LEVELS:** Land-surface elevation above mean sea level... 1450 ft.
Static level 260 ft. below top of well Date 5/3/78
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☐

(10) **WELL LOG:**

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Top Soil	0	10
Cleche	10	26
Med Hard Grey Basalt	26	100
Clay Grey	100	105
Basalt Grey	105	120
Basalt Broken Tan	120	131
Basalt Grey	131	216
Shale&Clay Brown & Green	216	237
Basalt Hard Grey	237	241
Shale Brown & Red	241	275
Basalt Grey	275	342
Clay Brown Shale Green	342	353
Basalt Soft Grey	353	359
Broken Brown and Green Shale	359	394
Basalt Soft Black	394	407
Basalt Grey	407	429
Shale & Clay Green	429	435
Shale Broken Red & Brown	435	477
Basalt Grey	477	696
Broken Grey and Green	696	708
Basalt Grey	708	710

Permitted 1640 gpm 832 AF/yr 260 Ac

RECEIVED
JUN 7 1978
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

DCL#: 62770 20.196 1993
FILE NO. 30.01
CC: PM DPM SM X C/SM FILE X

Work started 4/11, 19 78 Completed 5/3, 19 78

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Joy Drilling Company, Inc. (Person, firm, or corporation) (Type or print)

Address P.O. Box 971, Moses Lake, WA 98837

[Signed] Tim Stien (Well Driller)

License No. 0469 Date 5/24, 1978

6/12/78 Ruff 7/2

(USE ADDITIONAL SHEETS IF NECESSARY)

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 031751

Water Right Permit No. _____

(1) OWNER: Name Carl Melcher Address Odessa WA 99159

(2) LOCATION OF WELL: County ADAMS NE ¼ NW ¼ Sec. 12 T. 19N N., R. 31E W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) _____

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☐ Method: Dug ☐ Bored ☐ Deepened ☒ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 361 feet. Depth of completed well 685 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: _____" Diam. from _____ ft. to _____ ft.
Welded ☐ Liner installed ☐ Threaded ☐ _____" Diam. from _____ ft. to _____ ft.
_____" Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☐
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☐
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☐ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☐ No ☐ To what depth? _____ ft.
Material used in seal _____
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 361 ft. below top of well Date 2/24/92
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest 40+ gal./min. with stem set at 685 ft. for 1 hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
Well was caving in at 320'. Drilled to 345' and cemented 1½ yards cement slurry cement came to 210'		
NEW HOLE		
Hard Black	324	365
Hard Gray	365	390
Med. Red & Brown	390	400
Hard Gray	400	505
Med. Red & Brown	505	520
Hard Gray	520	640
Hard Gray Fractured	640	660
Hard Gray	660	685
TD 685'		
40+ GPM		
STATIC 361' Top of Casing		

RECEIVED
FEB 27 1992
DEPARTMENT OF ECOLOGY

Work started _____, 19. Completed 2/24/92, 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME LEMCO Drilling, Inc. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address PO Box 23 Lind, WA 99341

(Signed) Richard Smith (WELL DRILLER) License No. 1907

Contractor's Registration No. LEMCODI101JJ Date 2/25/92, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

STATE OF WASHINGTO.
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG No. A-6309

Date 11-7- 19 62

Record by

Source

Location: State of WASHINGTON

County Adams

Area

Map

SE¼ SE¼ SW¼ sec. 13 T. 19 N., R. 31 E. W.

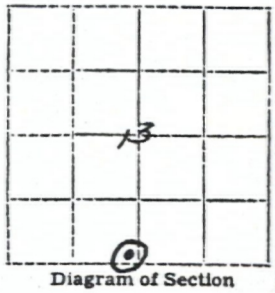

Diagram of Section

Drilling Co. Dewey Fox

Address Moses Lake, Washington

Method of Drilling drilled Date April 1, 19 62

Owner Carl Melcher

Address Route 1, Box 70, Odessa, Washington

Land surface, datum 1544 ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Soil	8	8
	Caliche	2	10
	Basalt	50	60
	Broken basalt	20	80
	Blue basalt	160	240
	Broken basalt	5	245
	Black and blue basalt	70	315
	Broken basalt - water	13	328
	Depth 328 ft - Diameter 8 in.		
	SWL: 250 ft (5-26-62)		
	Yield 55 gpm with 50 ft drawdown after 4 hrs.		
	Pump: 3 HP		
	Motor: Submersible		
	Casing: 8 in. diam from 0 to 13 ft.		

Turn up

Sheet ..... of ..... sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

App 8211
Perm 7457
Cert. 6272

WELL LOG

Record by Driller
Source Driller's Record

Location: State of WASHINGTON
County Adams
Area
Map

N½ ¼ ¼ sec. 2 T. 19 N., R. 32 E. E. W.

Diagram of Section

Drilling Co. H. & H. Drilling, Inc.
Address 814 Sycamore, Moses Lake, Wash.
Method of Drilling Rotary Date May 17, 19 67
Owner Pauline Haase,
Address Box 353, Odessa, Washington
Land surface, datum 1690 ft above / below
SWL: 153' Date May 17, 1967, 19 Dims.: 8" x 294'

Correlation	Material	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Domestic & Irrigation		
	Soil & clay	0	35
	Rock, brown, broken	35	125
	Basalt, grey	125	140
	Rock, brown, porous	140	190
	with soapstone		
	Rock, brown, porous, with soapstone		
	(brown water)	190	220
	Basalt, hard, grey	220	255
	Rock, brown, with soapstone		
	(water bearing)	255	285
	Basalt, hard grey	285	294
	Casing: 8" - 0'-35'6"		
	Yield: 250 gpm with 0' DD after 12 hrs.		
	Pump: 20 hp. Submersible		
	Jacuzzi		

Turn up

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STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

WELL LOG

Appl.#5373
Permit #5064

Record by Driller
Source Driller's Record

Location: State of WASHINGTON
County Adams
Area
Map
SE ¼ NE ¼ sec. 4 T. 19 N., R. 32 E. ~~W~~

Cert 3573

Diagram of Section

Drilling Co. John Davisson
Address Ritzville, Washington
Method of Drilling Date Aug. 22, 1959
Owner Jacob Greenwalt, Jr.
Address Box 74, Odessa, Wash.
Land surface, datum 1530 ft. above below
SWL: 73' Date, 19 Dims.: 12" x 296

CORRELATION	MATERIAL	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Irrigation		
	Soil		
	Clay & gravel	0	5
	Rock	5	26
	Rock	26	27
	Rock, hard	27	43
	Rock, broken	43	45
	Rock, hard	45	80
	Rock, broken	80	83
	Rock, hard	83	92
	Rock, soft, porous, water	92	122
	Rock, hard	122	151
	Rock, broken	151	197
	Rock, soft	197	203
	Rock, hard	203	214
	Rock, soft	214	221
		221	246

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WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	From (feet)	To (feet)
	Depth forward	———	
	Rock, hard	246	296
	Casing: 12" from 0-29'		
	Yield: 1040 gpm with 31' DD after 6 hrs.		
	Immediate recovery		
	Test made 8-23-59		
	Pump: 100 h.p. turbine		
	Permitted		
	1040 gpm		
	232 a-f/yr		
	260 acres		
	Meter Micrometer 73 8 406		
	2/2/25 47 600		

S. F. No. 7449—OS—12-65.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Appl. #1298
Cert. #1233-A

Date June 13, 1949

Record by Davisson & Dreyer

Source Ritzville, Wash.

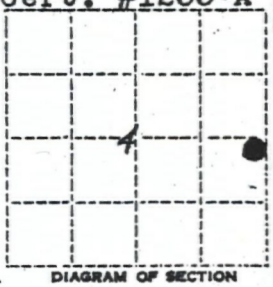

DIAGRAM OF SECTION

Location: State of WASHINGTON

County Adams

Area

Map

NE ¼ SE ¼ sec. 4 T. 19 N., R. 32 E.

Drilling Co. Davisson & Dreyer

Address Ritzville, Washington

Method of Drilling Drilled Date 19

Owner Jacob Greenwalt, Jr.

Address Route #1, Ritzville, Wash.

Land surface, datum 1600 ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Well log:		
	Soil	0	22
	Rock, black, hard	36	58
	Rock, blue	20	78
	Rock, red, soft	19	97
	Pump Test:		
	Dim.: 96' deep; 8" diam.		
	SWL: No information		
	DD: Not given		
	Yield: 300 g.p.m. (taken from Cert.)		
	Casing: Not given		
	Perfs.: No information		

Turn up

Sheet of sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

Appli. 8455
Permit 8133

WELL LOG C-6884

Well #1

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Adams

Area

Map

SW ¼SE ¼ sec. 15 T. 19 N., R. 32 E. W

Diagram of Section

Drilling Co. Shinn Irrigation Equip. Inc.

Address 710 E. Broadway, Moses Lake, Wash.

Method of Drilling Cable Date 10-28, 1967

Owner C. R. Shannon

Address Visalia, California

Land surface, datum 1665 ft. above / below

SWL: 400' Date 10-28-67, ~~pox~~ Dims.: 16"x725'

Correlation	Material	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Irrigation		
	Overburden	0	12
	Rock	12	17
	Basalt	17	83
	Basalt, broken, clay	83	97
	Basalt	97	100
	Clay, broken	100	102
	Caliche, caving	102	111
	Basalt	111	129
	Caliche	129	143
	Rock, red	143	157
	Boulders	157	169
	Basalt	169	293
	Basalt, broken, brown	293	298
	Basalt	298	478
	Clay, caving	478	480

Turn up

Sheet ..... of ..... sheets

WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	From (feet)	To (feet)
	Depth forward	———	
	Sand, clay	480	501
	Basalt	501	535
	Rock, red, (water)	535	548
	Basalt	548	586
	Basalt	586	704
	Sand, hard, black	704	712
	Basalt	712	725
	Casing: 18" from 0' to 40'		
	14" from 428' to 528'		
	Yield: 1800 gpm with 10' of DD after 4 hrs.		
	Recovery: Time: Water level:		
	0 400'		
	10 400'		
	20 400'		
	Date of Test: 10-31-67		
	Pump: 350 HP, Turbine, Layne		
	Permitted		
	G-6884 G7690		
	2000 gpm 2250		
	1056 acft/yr 456		
	264 acres 160		
	Meter No 74-12-1003		
	2/1/74 0 00		
	12/4/74 281 07		
	12/2/75 594 88		

S. F. No. 7449—OS—12-65.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

Appli. 8456
Permit 8134
WELL LOG C.6885

Well #2

Record by Driller
Source Driller's Record

Location: State of WASHINGTON
County Adams
Area
Map
SE ¼ SW ¼ sec. 15 T. 19 N., R. 32 E. WM

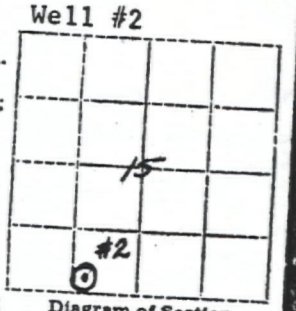

Diagram of Section

Drilling Co. Shinn Irrigation Equip. Inc.
Address 710 E. Broadway, Moses Lake, Wn.
Method of Drilling Cable Date Nov. 7, 1967
Owner C. R. Shannon
Address Visalia, California
Land surface, datum 1650 ft. above / below
SWL: 203' Date ..., 19... Dims.: 16"x710'

CORRELATION	MATERIAL	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Irrigation		
	Clay, sand	0	40
	Basalt, weathered	40	48
	Basalt	48	115
	Shale, iron & tin (Bauxite)	115	120
	Basalt	120	175
	Basalt, fractured	175	185
	Basalt	185	205
	Basalt, porous	205	215
	Basalt	215	412
	Basalt, w/high iron cont.	412	414
	Basalt, porous	414	415
	Basalt	415	630
	Basalt, black	630	640
	Basalt, grey	640	644
	Basalt, (water show)	644	670

Turn up

Sheet ... of ... sheets

WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	From (feet)	To (feet)
	Depth forward	———	
	Basalt	670	695
	Basalt, porous	695	705
	Basalt, broken, loose w/water	705	710
	Casing: 16" from0' to 710'		
	Yield: 2200 gpm with 167' DD after 4 hrs.		
	Recovery: time: water level:		
	0 220'		
	10 210'		
	20 210		
	Date of test: Nov. 8, 1967		
	Pump: 400 HP Turbine, Layne		
	Permitted		
	2000 gpm		
	1056 ac.ft./yr		
	264 acres		
	Metr. 74-12-1001		
	2/4/74 0.00		
	12/2/75 1120.56		

S. F. No. 7449—OS—12-65.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Everett Ooss Address RT 1 Ritzville Wn.

(2) LOCATION OF WELL: County Adams SW ¼ SW ¼ Sec 1 T 19 N., R 32 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☑ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....
New well ☑ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☑ Jetted ☐

(5) DIMENSIONS: Diameter of well 6" inches.
Drilled 210 ft. Depth of completed well 210 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6" Diam. from 0 ft. to 22 ft.
Threaded ☐ ." Diam. from ft. to ft.
Welded ☑ ." Diam. from ft. to ft.

Perforations: Yes ☐ No ☑
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☑
Manufacturer's Name
Type Model No
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☑ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☑ No ☐ To what depth? 22' ft.
Material used in seal CEMENT
Did any strata contain unusable water? Yes ☐ No ☑
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P

(8) WATER LEVELS: Land-surface elevation above mean sea level 1600 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Dirt Gravel	0	15
Brown Broken	15	22
Black Basalt	22	140
Brown Basalt	140	180
Black Basalt	180	186
Brown Basalt H2O	185	210

Work started 3-10, 19 82 Completed 3-11, 19 82

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME D & F Drilling M.C.
(Person, firm, or corporation) (Type or print)

Address 205 Beale

[Signed] (Well Driller)

License No. 0142 Date 3-11, 19 82

(USE ADDITIONAL SHEETS IF NECESSARY)

Return

ECY 050-1-20

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

Appli. #7310

WELL LOG No. P 6875

Date December 6, 1964

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Adams

Area 250' S & 600' W of center

Map Sec.16 (approximately)

NE ¼ SW ¼ sec. 16 T. 19 N., R. 32 E. W.

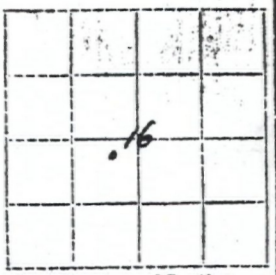

Diagram of Section

Drilling Co. John W. Davisson

Address Ritzille, Washington

Method of Drilling Cable Date Nov. 25, 1964

Owner Ernest Hardt Rt. 1

Address Ritzville, Washington

Land surface, datum 1455 ± ft. above / below

CORRELATION	MATERIAL	(feet) FROM	(feet) TO
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	irrigation well		
	Gravel	0	30
	Rock hard, gray	30	102
	Rock, hard green	102	129
	Rock, hard gray	129	150
	Rock, hard brown	150	155
	Rock, soft brown, some water	155	157
	Rock, hard gray	157	188
	Rock, soft br. some water	188	213
	Rock, hard gray	213	218
	Rock, soft brown	218	232
	Rock, hard gray	232	243
	Rock, soft gray	243	261
	Rock, hard gray	261	319
	Rock Clay, blue	319	324
	Rock, soft green, water	324	348

Turn up

Sheet ____ of ____ sheets

WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Depth forward	———	
	Rock, hard gray	348	357
	Rock hard gray	357	366
	Rock, soft, gray, somewater	366	377
	Rock, hard gray	377	395
	Rock, soft dark	395	415
	Rock, soft, black, water	415	436
	Rock, hard gray	436	442
	Casing: 16" from 0 to 32'		
	YIELD: 450 gpm with 257' DD after 2 hours		
	November 21, 1964		
	Second test: 1300 gpm with 5' DD . SWL 209'		
	November 30, 1964		
	Permitted		
	2000 gpm		
	2667 af		
	1360 ac		
	Meter Micrometer 74-10-101		
	3/20/74 999	999	
	2/10/75 882	36	

S. F. No. 7449—OS—6-61—2M.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

WRC 5552

Application No. ....
Permit No. ....

(1) OWNER: Name Mildred Selcho et al Address 205 W 3rd, Ritzville, Wash. 99169

(2) LOCATION OF WELL: County Adams — W ¼ SW ¼ Sec. 16 T. 19 N., R. 32 W.M.
Bearing and distance from section or subdivision corner 24 feet east, 72 feet south.

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☐ Deepened ☐ Reconditioned ☐
Method: Dug ☐ Bored ☐ Cable ☒ Driven ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 101 ft. Depth of completed well 101 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 8 " Diam. from 0 ft. to 24 ft.
Threaded ☐ ......" Diam. from ...... ft. to ...... ft.
Welded ☒ ......" Diam. from ...... ft. to ...... ft.

Perforations: Yes ☐ No ☐
Type of perforator used ....
SIZE of perforations ...... in. by ...... in.
...... perforations from ...... ft. to ...... ft.
...... perforations from ...... ft. to ...... ft.
...... perforations from ...... ft. to ...... ft.

Screens: Yes ☐ No ☐
Manufacturer's Name ....
Type .... Model No. ....
Diam. ...... Slot size ...... from ...... ft. to ...... ft.
Diam. ...... Slot size ...... from ...... ft. to ...... ft.

Gravel packed: Yes ☐ No ☐ Size of gravel: ....
Gravel placed from ...... ft. to ...... ft.

Surface seal: Yes ☐ No ☐ To what depth? ...... ft.
Material used in seal ....
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ...... Depth of strata ......
Method of sealing strata off ....

(7) PUMP: Manufacturer's Name Jacazzi
Type: Submercible HP 1½ to 2

(8) WATER LEVELS: Land-surface elevation above mean sea level.... 1400 ft.
Static level 30 ft. below top of well Date ......
Artesian pressure ...... lbs. per square inch Date ......
Artesian water is controlled by .... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? ....
Yield: ...... gal./min. with ...... ft. drawdown after ...... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ....
Bailer test ...... gal./min. with ...... ft. drawdown after ...... hrs.
Artesian flow ...... g.p.m. Date ......
Temperature of water ...... Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:
Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Soil	0	5
	5	12
Clay		
Gravel	12	23
Rock hard	23	50
Rock Soft (water)	50	52
Rock hard	52	60
Rock Soft (water)	60	98
Rock Hard	98	101

C. Batun

Work started March 28, 1950. Completed April 10, 1950

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME John Davisson & Dreyer
(Person, firm, or corporation) (Type or print)

Address Ritzville, Wash.

[Signed] Deceased
(Well Driller)

License No. .... Date ...., 19....

1/23/74

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

CANCELLED

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Appli. #1404
Permit #1287

Date April 10, 1950

Record by John Davisson

Source Driller's record

DIAGRAM OF SECTION

Location: State of WASHINGTON

County Adams

Area

Map

NE ¼ SE ¼ sec. 17 T. 19 N., R. 32 E. W.

Drilling Co. Davisson & Dreyer

Address Ritzville, Wash.

Method of Drilling Date None 19

Owner Carl Schell

Address Route 1, Ritzville, Wash.

Land surface, datum 1380 ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Soil	0	5
	Clay	7	12
	Gravel	11	23
	Rock hard	27	50
	Rock soft (water)	2	52
	Rock hard	8	60
	Rock soft (water)	38	98
	Rock hard	3	101
	Pump test: (None)		
	Dim: 101' x 8"		
	Casing: 8" dia. from 0 to 24'7"		
	Reason for cancellation: Did not receive Notice of Completion of Construction.		

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Sheet of sheets

Turn up

File Original and First Copy with the Division of Water Resources
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. ....

(1) OWNER: Name Walter Scheller Address Odessa, Wash.

(2) LOCATION OF WELL: County Grant NW¼ NW¼ Sec 12 T 20 N., R 31 W.M.

ring and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [ ] Driven [ ]
Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: 6 in. 265 to 355 8 in to 265 ft
Diameter of well ..... inches.
Drilled 355 ft. Depth of completed well 355 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8" Diam. from 0 ft. to 30 ft.
Threaded [ ] ." Diam. from ft. to ft.
Welded [X] ." Diam. from ft. to ft.

Perforations: Yes [ ] No [ ]
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes [ ] No [ ]
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [ ] Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes [ ] No [ ] To what depth? ft.
Material used in seal
Did any strata contain unusable water? Yes [ ] No [ ]
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type: H.P.

(8) WATER LEVELS: Land-surface elevation above mean sea level 1684 ft.
Static level ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [ ] If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes [ ] No [ ]

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
DIRT	0	30
MEDIUM BASALT ROCK	30	40
" " "	40	55
" " "	55	70
" " "	70	85
BLACK & BROWN ROCK WITH LITTLE WATER	85	100
HARD BASALT ROCK	100	115
MEDIUM BASALT ROCK	115	130
" " "	130	145
BIG HOLE FILLED WITH CEMENT	145	160
MEDIUM BASALT ROCK	160	175
BROKEN BROWN + BLACK ROCK	175	190
BROKEN ROCK WATER	190	205
MEDIUM BASALT ROCK	205	220
" " "	220	235
" " "	235	250
BROKEN BLACK + BROWN ROCK + MORE WATER	250	265
HARD BASALT ROCK	265	280
" " "	280	295
" " "	295	310
MEDIUM BASALT ROCK	310	325
" " "	325	340
HARD BASALT ROCK	340	355
Batun		

Work started Feb 2, 1970. Completed Feb 9, 1970

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Four Star Drilling Co.
(Person, firm, or corporation) (Type or print)

Address Coulee City

[Signed] Robert L Bice
(Well Driller)

License No. Date Feb 9, 1970

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—(Rev. 2-66)—2-66—5M. 4516.

3

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

WELL LOG

Record by Robert L. Bise

Source

Location: State of WASHINGTON

County Grant

Area

Map Batun

NW ¼NW ¼ sec. 12 T. 20 N., R. 31 E. W.

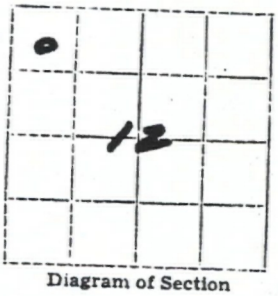

Diagram of Section

Drilling Co. Four Star Drilling Co.

Address Coulee City, Wa.

Method of Drilling Rotary Date 2/9/70, 19

Owner Walter Scheller

Address Odessa, Wa. 99159

Land surface, datum 1684 ft. above / below

SWL: Date, 19 Dims. 8" x 265
6" x 355

CORRELATION	MATERIAL	From (feet)	To (feet)
	Dirt	0	30
	Medium basalt	30	85
	Black and brown (W)	85	100
	Hard basalt	100	115
	Medium basalt	115	145
	Big hole cemented	145	160
	Medium basalt	160	175
	Broken brown and black	175	190
	Broken (W)	190	205
	Medium basalt	205	250
	Broken black and brown (W)	250	265
	Hard basalt	265	310
	Medium basalt	310	340
	Hard basalt	340	355
	Casing: 8"	0	30

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)

Turn up

Sheet of sheets

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG Flowing well No. Appli. #5084
P 4814
Date 3-5, 1959
Record by well driller
Source driller's record

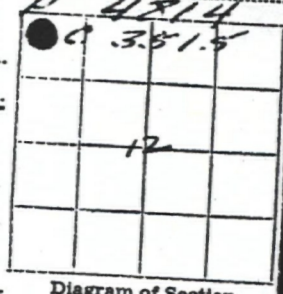

Diagram of Section

Location: State of WASHINGTON
County Adams
Area
Map
NW ¼ NW ¼ sec. 12 T. 20 N., R. 31 E. W.
Drilling Co. L. Williams
Address Odessa, Wash.
Method of Drilling Date Oct. 15, 1958
Owner Walter Scheller
Address Odessa, Wash.
Land surface, datum ft above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Dim. 167'x6"		
	SWL: 150 ft.		
	DD: ---		
	Yield: 120 g.p.m.		
	Type & size e of pump: 4" submergible		
	Type & size of motor: 5 h.p.		
	CASING:		
	6" diam. from 0 to 17 ft.		
	Permitted		
	160 gpm		
	100 Sac ft. /yr		
	25 acres		
	Meter 16996		
	7/22/74 0 cc		
	12/1/74 80 cc		
	11/21/75 108365		

Turn up (over)

Sheet ..... of ..... sheets

STATE OF WASHINGTO
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. A. 6468
P 62264
C 7294

Date 1-2, 1963
Record by well driller
Source driller's record

Location: State of WASHINGTON
County Adams
Area
Map
¼ ¼ sec 14 T 20 N., R 31 E. W.

Diagram of Section

Drilling Co. John W. Davisson
Address P.O. Box 124, Ritzville, Wash.
Method of Drilling cable Date 9-6, 1962
Owner Mary H. Miller
Address Rt. 1, Odessa, Wash.
Land surface, datum 1500 ft. above / below

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Soil	4	4
	Gravel & clay	11	15
	" " rock	13	28
	Rock hard	12	40
	" soft little water	33	73
	" hard	7	80
	" soft " "	12	92
	" hard	10	102
	" Soft	5	107
	" hard	48	155
	" soft water	13	168
	" hard	3	171
	" soft Water	20	191
	" hard	4	195
	Static level 12 ft. below land surface (9-6-1962)		
	Yield: 280 g.p.m. with 7' dd after 5 hrs.		

RECEIVED 4-20-1971

Turn up (over) Sheet ..... of ..... sheets

WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Depth forward	———	
	Surface was sealed with cement to a depth of 12 ft.		
	PUMP:		
	Jacuzzi - turbine 7½ h.p.		
	Permitted		
	1000 gpm		
	950 af/yr		
	330 acf		
	Meter 10879		
	3/12/75 216 957		
	Meter 80-801-837		
	9/12/75 4432		
	Meter 10879		
	9/12/75 277 012		
	11/19/76 556 693		

S. F. No. 7449—OS—6-61—2M.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
AND DEVELOPMENT

WELL LOG

No. Appli. #7265
Ref. 20.32
Cert. 5206
Cert 5949

Date May 19, 1965.

Record by Driller

Source Driller's Record

Location: State of WASHINGTON

County Adams

Area 340' N and 1225' E of

Map S¼ corner

SW ¼ SE ¼ sec. 15 T. 20 N., R. 32 E. W.

Diagram of Section

15

0

Drilling Co. Frank L. Zimmerman Well Drilling Contr.

Address 532 Dune Place, Moses Lake, Washington

Method of Drilling Cable Date May 13, 1965

Owner W. C. Raugust

Address Odessa, Washington

Land surface, datum 1670 ft. above / below

CORRELATION	MATERIAL	BOTTOM (feet) From	BOTTOM (feet) To
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Irrigation use		
	DIMS: 15" x 740'		
	Top soil	0	7
	Rock, Broken and clay	7	46
	Basalt, medium hard, black	46	180
	Basalt, hard	180	340
	Rock, broken and clay (wtr)	340	380
	Basalt, hard, gray	380	675
	Rock, broken and clay	675	685
	Basalt, hard gray	685	735
	Rock, broken (wtr)	735	740
	Casing: 16" from 0-52'		
	8" from 665 to 695'		

Turn up

Sheet ..... of ..... sheets

WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	THICKNESS (feet)	DEPTH (feet)
	Depth forward	———	
	Perforated from 670 to 690'		
	Surface sealed off by pipe to a depth of 52'		
	SWL: 122' on 3/13/65		
	Yield: 1100 gpm with 118' DD after 2 hrs. (NOT TOO RELIABLE)		
	1270 gpm with 278' DD after 2 hrs.		
	Date of test: 3/13/65		
	Pump: 150 h.p. Jacuzzi lineshaft turbine		
	Permitted		
	1100 gpm		
	1320 ac.ft./yr		
	440 acres		
	Meter Rockwell 11183		
	5/7/74 9213		

S. F. No. 7449—OS—6-61—2M.

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. ....

(1) OWNER: Name W. C. Rayner Estate Address Othello Wash 99159

(2) LOCATION OF WELL: County Adams - 1050' E and 980' S of NW corner of Sec. 15 T. 20 N., R. 32E W.M.

Bearing and distance from section or subdivision corner being within the NW¼ of the NW¼ of Sec. 15.

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well ☒ Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 220 ft. Depth of completed well 220 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 15 ft.
Threaded ☐ ." Diam. from ft. to ft.
Welded ☒ ." Diam. from ft. to ft.

Perforations: Yes ☐ No ☐
Type of perforator used
SIZE of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: Yes ☐ No ☐
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel:
Gravel placed from ft. to ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

(7) PUMP: Manufacturer's Name Jacuzzi
Type: Submersible Turbine H.P. 3

(8) WATER LEVELS: Land-surface elevation above mean sea level... 1600 ft.
Static level 67 ft. below top of well Date
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a ~~pump~~ air test made? Yes ☒ No ☐ If yes, by whom? Contractor
Yield: 40 gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
~~Bailer~~ air test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Sand	0	3
Gravel	3	7
Basalt, broken	7	14
Basalt, gray hard	14	103
Basalt, gray soft	103	105
Basalt, broken broken	105	130
10 gal. water per min	130	
Basalt, gray hard	130	197
Basalt, broken broken	197	215
Carrying water - total 40 GPM. per min.		
Basalt, gray hard	215	220

RECEIVED
DEC 20 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Batun

Work started 7/23, 1974 Completed 7/24, 1974

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Barnett Pump & Irrigation
(Person, firm, or corporation) (Type or print)

Address Box 104 Lind, Wash. 9934

[Signed] Bruce M. Wallace
(Well Driller)

License No. 513 Date Aug 5, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

12/25/74

3

6015-C

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ....
PAGE NO Permit No. 6015 A

(1) OWNER: Name Mrs. Reca. Rauqust Estate Address Box 592 Odessa, Wash 9915[illegible]

(2) LOCATION OF WELL: County .... — ¼ ¼ Sec. 15 T. 20 N., R. 32 E W.M.

Bearing and distance from section or subdivision corner LOCATED IN S½ - SW ¼

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☒ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 2
New well ☐ Method: Dug ☐ Bored ☐
Deepened ☒ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8" inches.
Drilled .... ft. Depth of completed well 1005 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 0 " Diam. from .... ft. to .... ft.
Threaded ☐ .... " Diam. from .... ft. to .... ft.
Welded ☐ .... " Diam. from .... ft. to .... ft.

Perforations: Yes ☐ No ☒
Type of perforator used ....
SIZE of perforations .... in. by .... in.
.... perforations from .... ft. to .... ft.
.... perforations from .... ft. to .... ft.
.... perforations from .... ft. to .... ft.

Screens: Yes ☐ No ☒
Manufacturer's Name ....
Type .... Model No. ....
Diam. .... Slot size .... from .... ft. to .... ft.
Diam. .... Slot size .... from .... ft. to .... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: ....
Gravel placed from .... ft. to .... ft.

Surface seal: Yes ☐ No ☐ To what depth? .... ft.
Material used in seal ....
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? .... Depth of strata ....
Method of sealing strata off ....

(7) PUMP: Manufacturer's Name ....
Type: .... H.P. ....

(8) WATER LEVELS: Land-surface elevation above mean sea level.... 1750 ft.
Static level 235' ft. below top of well Date April 20
Artesian pressure .... lbs. per square inch Date ....
Artesian water is controlled by .... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? ....
Yield: .... gal./min. with .... ft. drawdown after .... hrs.
" No " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)
Time Water Level Time Water Level Time Water Level
Air pumped well and I estimate that we picked up another 1000 GPM

Date of test ....
Bailer test .... gal./min. with .... ft. drawdown after .... hrs.
Artesian flow .... g.p.m. Date ....
Temperature of water 65 Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
8" Gray-Black Basalt	808'	875
8" Dark Brown Soft Basalt Large texture.	875'	900'
8" Very Hard Black Basalt fine texture	900'	970
8" Brown-Very Porous Soft Basalt Large texture "Water Bearing"	970'	995
8" Very hard Black Basalt fine texture	995'	1005
T.W.D.		

Copied

Work started April 16, 1975. Completed April 20, 1975

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Leach Well Drilling (Person, firm, or corporation) (Type or print)

Address 1128 South Ash Moses Lake

[Signed] Nathaniel L. Leach (Well Driller)

License No. 0276 Date April 21, 1975

3/22/76

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION
DIVISION OF WATER RESOURCES

Appli.: 8234
Permit: 7746
WELL LOG Ark 6015

Record by Driller
Source Driller's Record

Location: State of WASHINGTON
County Adams
Area
Map

S½ X¼ SW¼ sec. 15 T. 20 N., R. 32 E. XX

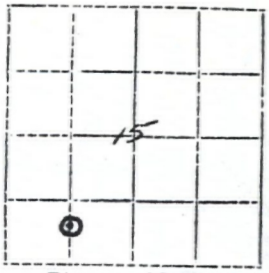

Diagram of Section

Drilling Co. Robert L. Sewall
Address Harrington, Washington
Method of Drilling Cable Date April 19, 1967
Owner W. C. Raugust
Address Odessa, Washington
Land surface, datum 1750 ft. above / below 1005
SWL 207' Date April 19, 1967 Dims.: 16"x790'

Correlation	Material	From (feet)	To (feet)
	(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water-bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratigraphic column, if feasible. Following log of materials, list all casings, perforations, screens, etc.)		
	Irrigation		
	Top siil	0	13
	Rock, broken	13	37
	Basalt, black	37	87
	Basalt, broken	87	96
	Basalt, grey, hard	96	216
	Basalt, broken, (water)	216	236
	Basalt, grey	236	243
	Sand	243	245
	Basalt, grey	245	310
	Basalt, broken; clay	310	331
	Basalt, grey	331	402
	Basalt, broken	402	405
	Clay, green	405	420
	Basalt, broken; clay	420	447
	Basalt, grey	447	469

Turn up

WELL LOG.—Continued No...../.....-.....

CORRELATION	MATERIAL	From (feet)	To (feet)
	Depth forward		469
	Sand, fine	469	471
	Basalt, grey	471	643
	Sand, fine	643	645
	Basalt, grey	645	671
	Basalt, broken	671	675
	Basalt, grey	675	693
	Basalt, & granite, hard	693	701
	Basalt, broken	701	710
	Basalt, grey	710	719
	Basalt, clay (33' casing)	719	761
	Basalt,	761	782
	Basalt, broken (clear water)	782	788
	Basalt, grey	788	790
	Casing: 16" from 0' to 40'		
	10" from 729' to 762'		
	Perforations: (on 10" casing)		
	from 0' to 33'		
	Permitted		
	1000 gpm		
	1077 ac.ft./yr		
	480 acres		
	Meter No Rockwell N183		
	7/1/74 286 63		
	(Hole deepened by Leach Well Drilling Co. 4-21-75)		
	Gray black basalt	808	875
	Dark brown basalt	875	900
	Very hard black	900	970
	Brown porous (W)	970	995
	Very hard	995	1005

S. F. No. 7449—OS—12-65.

[redacted]

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 29765

Water Right Permit No. _____

(1) OWNER: Name Eugene Raugust Address Box 93, Odessa, WA 99159

(2) LOCATION OF WELL: County Adams SE¼ SE¼ Sec. 24 T. 20 N., R. 32e W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) _____

(3) PROPOSED USE: XX Domestic ☐ Industrial ☐ Municipal ☐ ☐ Irrigation ☐ Test Well ☐ Other ☐ ☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☐ Method: Dug ☐ Bored ☐ Deepened XX ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary XX ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 270 feet. Depth of completed well 621 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 0 " Diam. from _____ ft. to _____ ft.
Welded ☐ _____ " Diam. from _____ ft. to _____ ft.
Liner installed ☐
Threaded ☐ _____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No XX
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No XX
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No XX Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes XX No ☐ To what depth? _____ ft.
Material used in seal existing seal
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: n/a H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level _____ ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
hard black basalt	351	399
black brown broken/ little water	399	424
brown red broken basalt	424	437
med hard black basalt	437	443
black broken basalt	443	452
med hard black basalt	452	477
hard gray basalt	477	556
black broken basalt/little water	556	562
med hard black basalt	562	577
XXX hard gray basalt	577	621

MAR 15 1991

Work started 2-27 , 19 91 Completed 3-1 , 19 91

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME L & L Drilling, Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address PO Box 167 Wilson Creek, WA 98860
(Signed) Bill James (WELL DRILLER) License No. 1449
Contractor's Registration No. LLDRII 134P6 Date 3-12 , 19 91

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

File Original and First Copy with Department of Ecology
Second Copy — Owner's Copy
Third Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name Don Walter Address .....

LOCATION OF WELL: County Adams SE ¼ 4 F ¼ Sec 28 T 20 N., R 32 E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(4) TYPE OF WORK: Owner's number of well (if more than one) ....
New well [X] Method: Dug [ ] Bored [ ]
Deepened [ ] Cable [ ] Driven [ ]
Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 ¼ inches.
Drilled 342 ft. Depth of completed well 342 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 8 " Diam. from +1 ft. to 60 ft.
Threaded [ ] ..... " Diam. from ..... ft. to ..... ft.
Welded [X] ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes [ ] No [X]
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes [ ] No [X]
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes [ ] No [X] Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes [X] No [ ] To what depth? 60 ft.
Material used in seal Cement Bentonite.
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 266 ft. below top of well Date 8-14-87
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [ ] If yes, by whom? .....
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water 60 Was a chemical analysis made? Yes [ ] No [ ]

9/14/87 DL

(10) WELL LOG:

Formation: *Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.*

MATERIAL	FROM	TO
Dirt	0	58
Basalt weathered. Blk & Brown	58	105
Basalt Black	105	130
Basalt Black & Brown	130	156
Basalt Brown	156	161
Basalt Hard Black	161	230
Basalt Broken Brown	230	237
Basalt Grey	237	285
Basalt Black & Red.	285	292
Basalt Grey	292	317
Basalt Red Brown some Green Lots water.	317	340
Basalt Black.	340	342

RECEIVED
SEP 16 1987
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

Work started 8-6 19 87 Completed 8-13 19 87

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME JOY Drilling Co.
(Person, firm, or corporation) (Type or print)
Address Moses Lake Wn.
[Signed] Fred T. Stevens
(Well Driller)
License No. 0469 Date 8-13, 19 87

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

File Original and First Copy with Department of Ecology
Second Copy—Owner's Copy
Third Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 29793

Water Right Permit No. _____

OWNER: Name Michael Kiesz Address Rt 1 Box 126 Odessa, WA 99159

(2) LOCATION OF WELL: County Adams NE ¼ NW ¼ Sec 30 T. 20 N., R. 32e W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) _____

(3) PROPOSED USE: ☒ Domestic ☐ Irrigation ☐ DeWater ☐ Industrial ☐ Test Well ☐ Municipal ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) _____

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 8-12 inches.
Drilled 230-12" 326-8" feet. Depth of completed well 556 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from +1 ft. to 230 ft.
Welded ☒ Liner installed ☐ Threaded ☐ _____ " Diam. from _____ ft. to _____ ft.
_____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes ☐ No ☒
Type of perforator used _____
SIZE of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

Screens: Yes ☐ No ☒
Manufacturer's Name _____
Type _____ Model No _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel _____
Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes ☒ No ☐ To what depth? 230 ft.
Material used in seal CEMENT + BENTONITE
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____
Type: N/A H.P. _____

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 442' ft. below top of well Date _____
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.))

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? _____
Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " "
" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Airtest _____ gal./min. with stem set at _____ ft. for _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water _____ Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
top soil	0	36
caliche	36	39
sandy sail	39	56
gravel, sand	56	63
black broken basalt	63	65
hard black basalt (WATER)	65	93
brown soft broken basalt	93	104
med black basalt	104	107
med gray basalt	107	166
brown broken basalt (WATER)	166	176
med gray basalt	176	200
hard gray basalt	200	256
brown broken basalt	256	267
hard gray basalt	267	331
med gray basalt	331	366
hard gray basalt	366	381
med gray basalt	381	428
blk, tan, brown clays, blk broken basalt	428	456
hard gray basalt	456	481
black broken	481	518
red, brown broken (water)	518	531
black broken (water)	531	550
hard gray basalt	550	556

JUN 25 1990

Work started 5/10 19 90 Completed 5-31-90 19

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME L+L DRILLING, INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address PO BOX 167 WILSON CREEK, WA 98860
(Signed) Bill James (WELL DRILLER) License No. 1449
Contractor's Registration No. LLDRII*134P6 Date 6-20 19 90

(USE ADDITIONAL SHEETS IF NECESSARY)